Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

- 1. (Currently amended) A composition comprising a MTB39 antigen (SEQ ID NO:12 or 14) or an immunogenic fragment thereof from a *Mycobacterium* species of the tuberculosis complex, and a MTB32A antigen (SEQ ID NO:2 or 4) or an immunogenic fragment thereof from a *Mycobacterium* species of the tuberculosis complex, wherein at least one amino acid corresponding to position 183 of SEQ ID NO:4 or position 208 of SEQ ID NO:2 in the MTB32A antigen (SEQ ID NO:2 or 4) has been substituted by a different amino acid.
- 2. (Original) The composition of claim 1, comprising a MTB39 antigen (SEQ ID NO:12 or 14) or an immunogenic fragment thereof from a *Mycobacterium* species of the tuberculosis complex, and a polypeptide comprising at least 195 amino acids from the N-terminus of a MTB32A antigen (SEQ ID NO:2 or 4) from a *Mycobacterium* species of the tuberculosis complex.
- 3. (Original) The composition of claim 2, further comprising a polypeptide comprising at least about 132 amino acids from the C-terminus of MTB32A antigen (SEQ ID NO:2 or 4) from a *Mycobacterium* species of the tuberculosis complex.
- 4. (Original) The composition of claims 1, 2, or 3, wherein the antigens are covalently linked, thereby forming a fusion polypeptide.
- 5. (Original) The composition of claim 4, wherein the fusion polypeptide has the amino acid sequence of MTB59F (SEQ ID NO:20).

6(Canceled)		-			-									-	-	-
-------------	--	---	--	--	---	--	--	--	--	--	--	--	--	---	---	---

- 7. (Original) The composition of claim 4, wherein the fusion polypeptide has the amino acid sequence of MTB72FMutSA (SEQ ID NO:18).
 - 8. (Original) The composition of claim 6 or 7, further comprising BCG.
- 9. (Original) The composition of claim 6 or 7, further comprising at least one additional antigen from a *Mycobacterium* species of the tuberculosis complex, wherein the antigen is selected from the group consisting of MTB8.4 antigen (SEQ ID NO:22), MTB9.8 antigen (SEQ ID NO:24), MTB9.9 antigen (SEQ ID NO:27), MTB40 antigen (SEQ ID NO:29), MTB41 antigen (SEQ ID NO:31), 38-1 (SEQ ID NO:35), TbRa3 (SEQ ID NO:37), 38 kD (SEQ ID NO:39), DPEP (SEQ ID NO:41), TbH4 (SEQ ID NO:43), DPPD(SEQ ID NO:45), MTB82, Erd14, ESAT-6 antigen (SEQ ID NO:33), MTB85 complex antigen, or α-crystalline antigen, or an immunogenic fragment thereof.
- 10. (Original) The composition of claim 6 or 7, further comprising an adjuvant.
- 11. (Original) The composition of claim 4, wherein the antigens are covalently linked via a chemical linker.
- 12. (Original) The composition of claim 11, wherein the chemical linker is an amino acid linker.
- 13. (Original) The composition of claim 1, further comprising at least one additional antigen from a *Mycobacterium* species of the tuberculosis complex, wherein the antigen is selected from the group consisting ofMTB8.4 antigen (SEQ ID NO:22), MTB9.8 antigen (SEQ ID NO:24), MTB9.9 antigen (SEQ ID NO:27), MTB40 antigen (SEQ ID NO:29), MTB41 antigen (SEQ ID NO:31), 38-1 (SEQ ID NO:35), TbRa3 (SEQ ID NO:37), 38 kD (SEQ ID NO:39), DPEP (SEQ ID NO:41), TbH4 (SEQ ID NO:43), DPPD(SEQ ID NO:45), MTB82, Erd14, ESAT-6 antigen (SEQ ID NO:33), MTB85 complex antigen, or α-crystalline antigen, or an immunogenic fragment thereof.

- 14. (Original) The composition of claim 1, further comprising an adjuvant.
- 15. (Original) The composition of claim 14, wherein the adjuvant comprises QS21 and MPL.
- 16. (Original) The composition of claim 14, wherein the adjuvant is selected from the group consisting of AS2, ENHANZYN, MPL, 3D-MPL, IFA, QS21, CWS, TDM, AGP, CPG, Leif, saponin, and saponin mimetics.
 - 17. (Original) The composition of claim 1, further comprising BCG or pVac.
- 18. (Original) The composition of claim 1, further comprising an NS1 antigen or an immunogenic fragment thereof.
- 19. (Original) The composition of claim 1, wherein the *Mycobacterium* species is *Mycobacterium tuberculosis*.

20-69. (Canceled)

- 70. (Currently amended) An isolated MTB32A polypeptide from a *Mycobacterium* species of the tuberculosis complex, wherein at least one amino acid in the active site triad corresponding to position 183 of SEQ ID NO:4 or position 208 of SEQ ID NO:2 of the MTB32A antigen (SEQ ID NO:2 or 4) has been substituted by a different amino acid.
 - 71. (Canceled)
- 72. (Currently amended) The polypeptide of claim 71 70, wherein an alanine residue has been substituted for the serine residue.
- 73. (Original) A polypeptide of claim 72, wherein the polypeptide comprises an amino acid sequence of SEQ ID NO:6.
 - 74. (Original) A composition comprising the polypeptide of claim 70.

- 75. (Original) A fusion polypeptide comprising the polypeptide of claim 70.
- 76-82. (Canceled)
- 83. (Currently amended) An isolated polypeptide encoding a fusion polypeptide comprising a MTB39 (SEQ ID NO:12 or 14) antigen from a *Mycobacterium* species of the tuberculosis complex, and an antigen comprising at least 195 amino acids from the N-terminus of a MTB32A antigen (SEQ ID NO:2 or 4) from a *Mycobacterium* species of the tuberculosis complex, wherein an amino acid of the active site triad of at least one amino acid corresponding to position 183 of SEQ ID NO:4 or position 208 of SEQ ID NO:2 in the MTB32A antigen (SEQ ID NO:2 or 4) has been substituted by a different amino acid.
 - 84. (Canceled)
- 85. (Original) The polypeptide of claim 83, wherein an alanine residue has been substituted for the serine residue.
 - 86. (Original) A composition comprising the polypeptide of claim 83.
 - 87. (Original) A fusion polypeptide comprising the polypeptide of claim 83.
- 88. (Original) A fusion polypeptide comprising an amino acid sequence of SEQ ID NO:18.